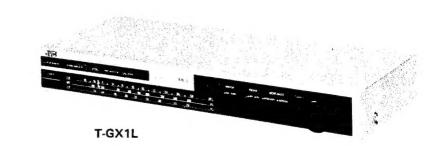


JVC

SERVICE MANUAL

FM/AM STEREO TUNER

MODEL T-GX1/T-GX1B MODEL T-GX1L/T-GX1LB





Madal	Variation			
Model	Feature	Color		
T-GX1		Silver		
T-GX1L	with LW	Silver		
T-GX1B	_	Black		
T-GX1LB	with LW	Black		

Contents

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1. Specifications	Parts List Separate-volume Insertion
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Safety Precaution

 The design of this product contains special hardware, many circuits and components specially for safety purposes.

For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.

- Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (\(\triangle \)) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.

When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.

5. Leakage current check

(Safety for electrical shock hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet.
 Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).

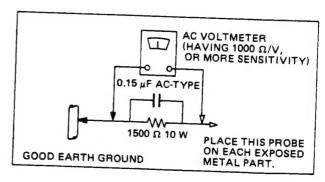
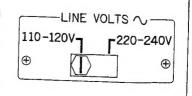


Fig. 1

CHECKING YOUR LINE VOLTAGE (For U.S. Military Market and Other Countries)
Before inserting the power plug, please check this setting to see that it corresponds with the line voltage in your area. If it doesn't, be sure to adjust the voltage selector switch to the proper setting before operating this equipment. The voltage selector switch is located on the rear panel.

CAUTION: Before selecting the "Voltage selector switch" to proper voltage, disconnect the power plug.



1. Specifications

FM TUNER SECTION		′78 IHF	DIN
Tuning range	:	88-108 MHz	87.5-108.0 MHz
Usable sensitivity	:	11.2 dBf	_
(IHF)		$(1.0 \mu V/75 \text{ ohms})$	
26 dB quieting			
sensitivity	:	_	$1.5 \mu\text{V}/75 \text{ ohms}$
50 dB quieting			
sensitivity			
Mono	:	17.3 dBf,	_
		$(2.0 \mu\text{V}/75 \text{ohms})$	
Stereo	:	38.3 dBf,	
		$(22.5 \mu\text{V}/75 \text{ ohms})$	
46 dB quieting			
sensitivity			
Stereo	:	-	35 μ V/75 ohms
Signal-to-Noise rat			
		76 dB	70 dB
Stereo	:	70 dB	64 dB
Total harmonic			
distortion		0.00	
Mono		0.2 %	0.15%
Stereo		0.3 %	0.4 %
		60 dB ± 400 kHz	55 dB ± 300 kHz
Capture ratio			1.0dB
		55 dB at 98 MHz	
		30 Hz - 15 kHz (+0.)	
Stereo separation			37dB at 1kHz
		600 mV	600mV
Output impedance	:	3.3 k ohms	3.3k ohms

AM TUNER SECTION	MW	LW
Tuning range	: 525 kHz — 1605 kHz	150 kHz – 350 kHz
Usable sensitivity (Loop antenna)	: 350 µV/m	600 μV/m

Signal-to-Noise

ratio : 50 dB 45 dB

DIMENSIONS : $61(H) \times 435(W) \times 224(D) \text{ mm}$ $(2-7/16'' \times 17-3/16'' \times 8-7/8'')$

WEIGHT : 1.8 kg (4.0 lbs)

Design and specifications are subject to change without notice.

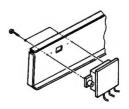
POWER SPECIFICATIONS

Areas	Line Voltage & Frequency	Power Cor	Power Consumption		
	200 Voltage & Frequency	Power ON	Standby		
U.S.A. & Canada	AC 120 V, 60 Hz	5 watts	1 watt		
Continental Europe	AC 220 V∿, 50 Hz	5 watts	1 watt		
U.K. & Australia	AC 240 V∿, 50 Hz	5 watts	1 watt		
Other areas	AC 110-120/220-240 V∿, Selectable, 50/60 Hz	5 watts	1 watt		

Warning Hints at Fitting the Voltage Selector

Take great care not to fit the voltage selector in the reverse direction. If the voltage selector is fitted contrariwise, the lines of 110-120 V and 220-240 V are set opposite and it causes a serious trouble.

When fitting the voltage selector, set it as its wires are under the P.C. board (see the figure on the right).



2. Dial Stringing Procedure

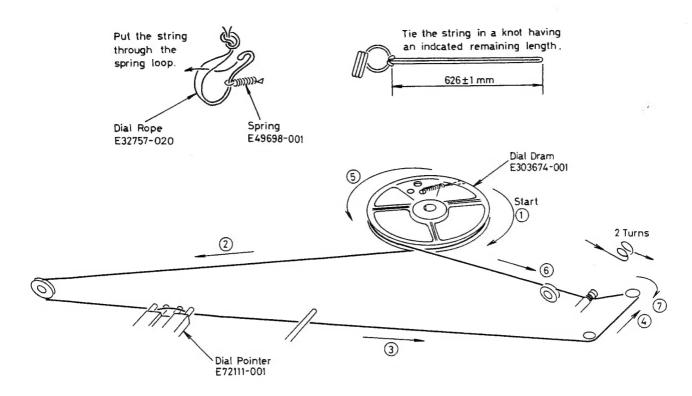


Fig. 2

3. Removal Procedures

3-(1) Metal cover section

- 1. Loosen and remove the five screws (two on the both sides and three on the rear) securing the metal cover.
- 2. Remove the metal cover lifting it up by the back.

3-(2) Front panel section

- Loosen a screw on the left side of the front panel and two screws securing the panel and the board to remove them.
- 2. Loosen the five screws securing the panel and the chassis base together on the bottom of the set.
 - Note: Make sure not to loosen the three screws on the front panel in this procedure.
- 3. Move the dial pointer to the most rightward (high frequency) position.
- 4. Take off the tuning knob and remove the nut fixing the tuning shaft.

- Take off the dial pointer from the front panel.(Loosen a plastic rivet on the rail of the dial pointer.)
- 6. Take off the tuning LED P.C.B. (Loosen a plastic rivet) from the front panel.

3-(3) P.C. board check

- 1. Remove the metal cover. (Refer to the item 3-(1) above.)
- 2. Loosen and remove the fourteen screws securing the chassis base on the bottom.
- 3. Remove the three screws fixing the board.
- Remove the clamp securing the power cord to the chassis base.

4. Alignment Procedures

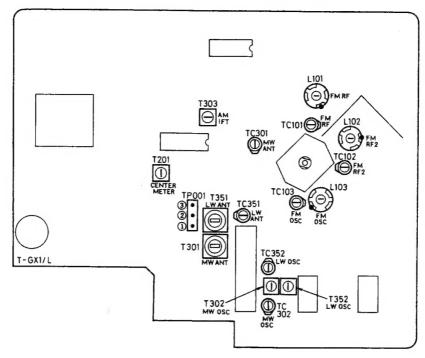


Fig. 3

4-(1) FM section

Low Frequency

- Connect an RF generator, 1 kHz modulation and 75 kHz deviation, to the antenna terminals on the rear panel through a dummy antenna.
- 2. Set the RF generator to 88 kHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μ V.
- 3. Connect a VTVM and oscilloscope to Signal Cord.
- 4. Set the dial pointer to 88 MHz.
- Adjust the three coils L103, L102 and L101 in the tuning gang to maximize the output.

High Frequency

- 6. Set the RF generator to 108 MHz, a modulation of 1 kHz and a deviation of 75 kHz, to provide an input of 2 μ V.
- 7. Set the dial pointer to 108 MHz.
- 8. Adjust the FM trimmers TC103, TC102 and TC101 in the tuning gang to maximize the output.
- Repeat these high and low frequencies adjustment alternately until maximum sensitivity is obtained.

Note: After adjustment, confirm that the band cover is as follows: (for West Germany only)

FM: Low-end 87.5 MHz - 300 kHz High-end 108.0 MHz + 500 kHz

Discriminator, Center Meter

- Connect an oscilloscope, distortion meter and AC VTVM to Signal Cord.
- 2. Connect a DC VTVM to TP001 (1)—(2).
- 3. Tune to frequency where there is no broadcasting.
- Adjust the core of T201 so that the DC VTVM indicates "0" (zero).

4-(2) MW (LW) section

MW (LW) Tracking and Sensitivity

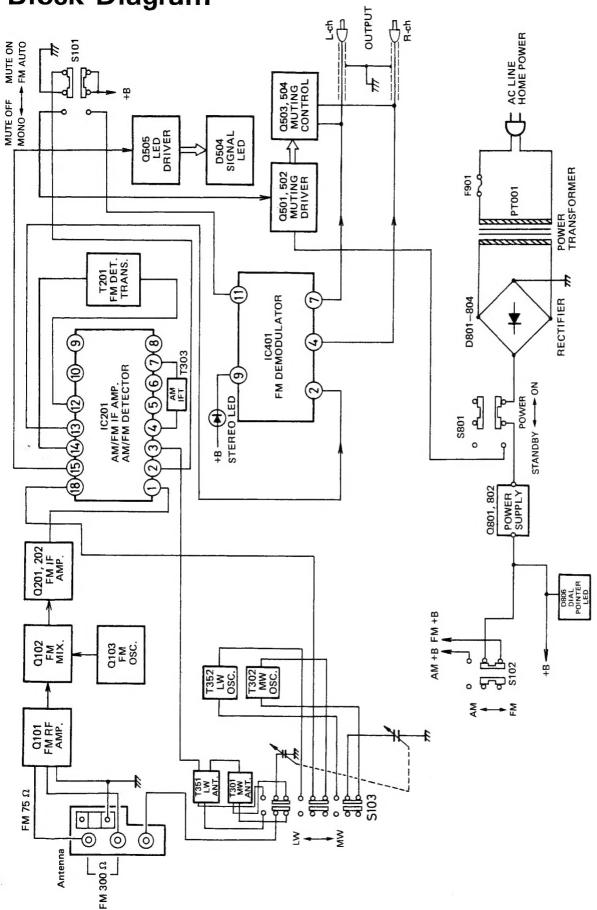
Low Frequency

- Connect the RF generator to the antenna terminal on the rear panel, set this to 600 kHz (160 kHz) with 30% modulation at 400 Hz.
- Connect an AC VTVM and an oscilloscope to Signal Cord.
- 3. Set the dial pointer to 60 kHz (160 kHz).
- Adjust OSC transformer T302 (T352) and ANT coil T301 (T351) in the tuning gang to maximize the output.

High Frequency

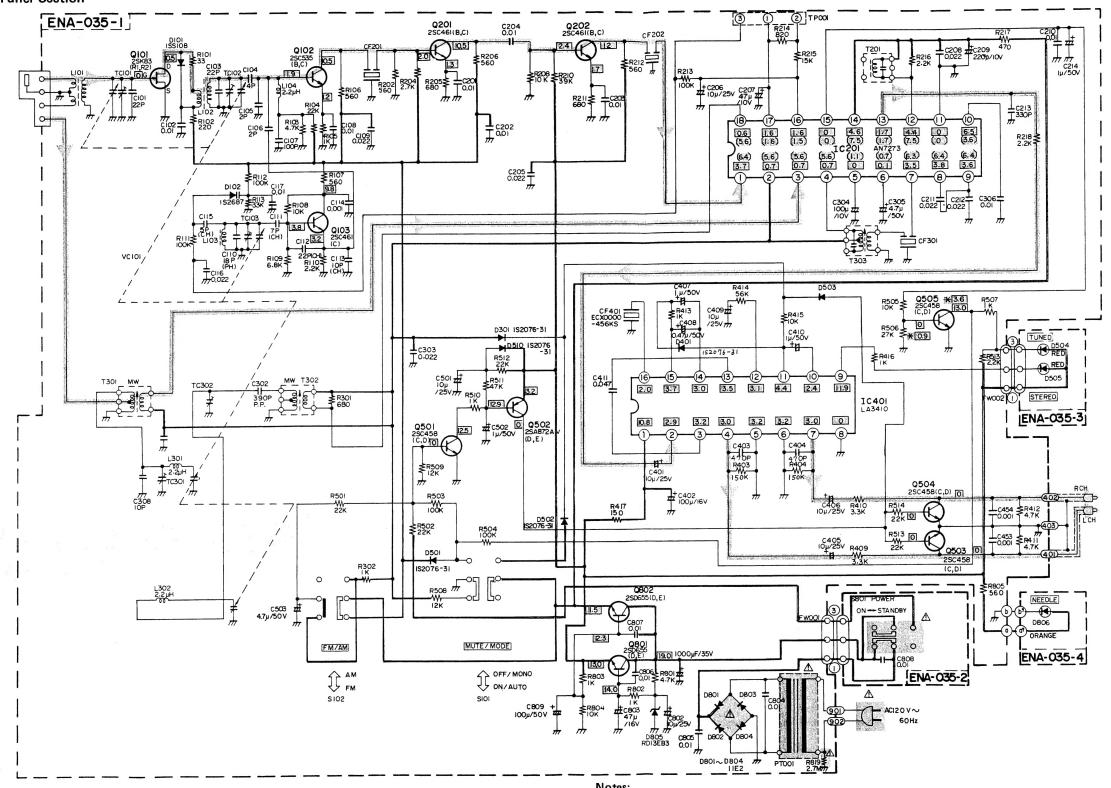
- Set the RF generator to 1400 kHz (350 kHz) with 30% modulation at 400 Hz.
- 6. Set the dial pointer to 1400 kHz (350 kHz).
- Adjust the trimmers TC302 (TC352) and TC301 (TC351) in the tuning gang so that the output signal is maximized.
- Repeat these high and low frequencies adjustment procedures alternately until maximum sensitivity is obtained.

5. Block Diagram



6. T-GX1/T-GX1L Schematic Diagram

6-(1) T-GX1 Tuner Section

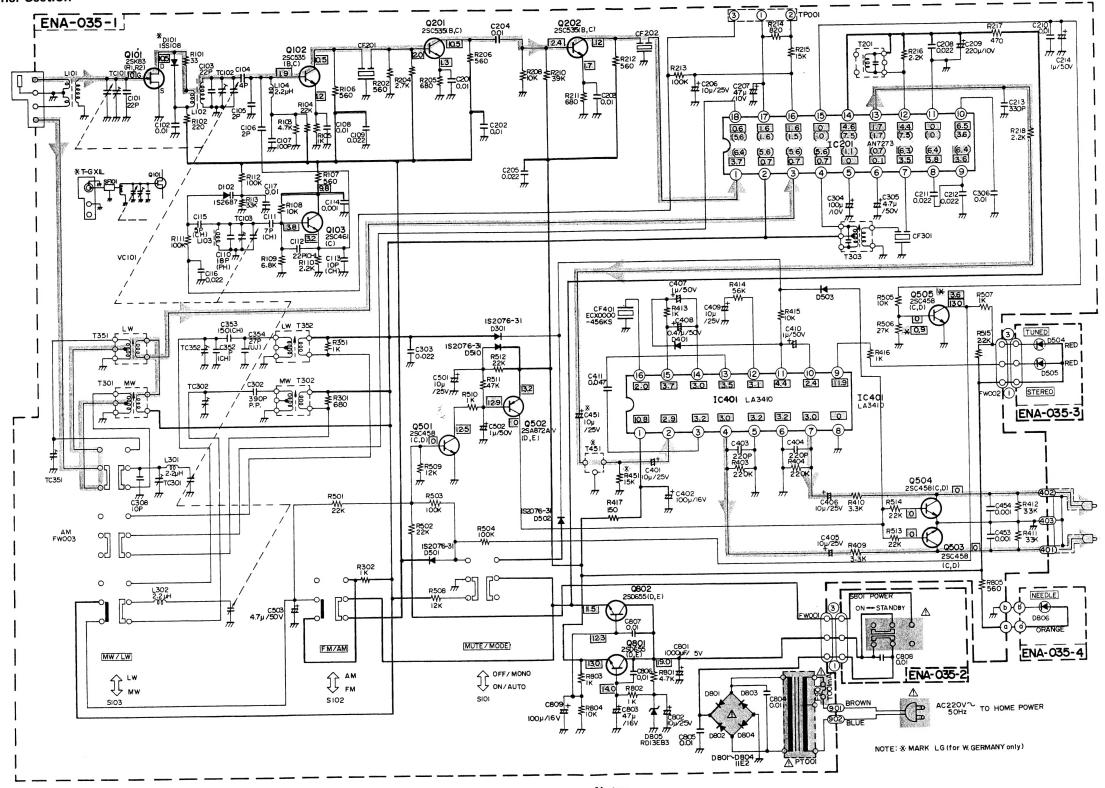


Notes:

- 1. shows DC voltage to the chassis with no signal in-
- 2. —— indicates positive B power supply.
- 3. indicates signal path.

- 4. When replacing the parts in the darkened area () and those marked with $\underline{\Lambda}$, be sure to use the designated parts to ensure safety.
- 5. This is the standard circuit diagram. The design and contents are subject to change without notice.

6-(2) T-GX1L Tuner Section



Notes:

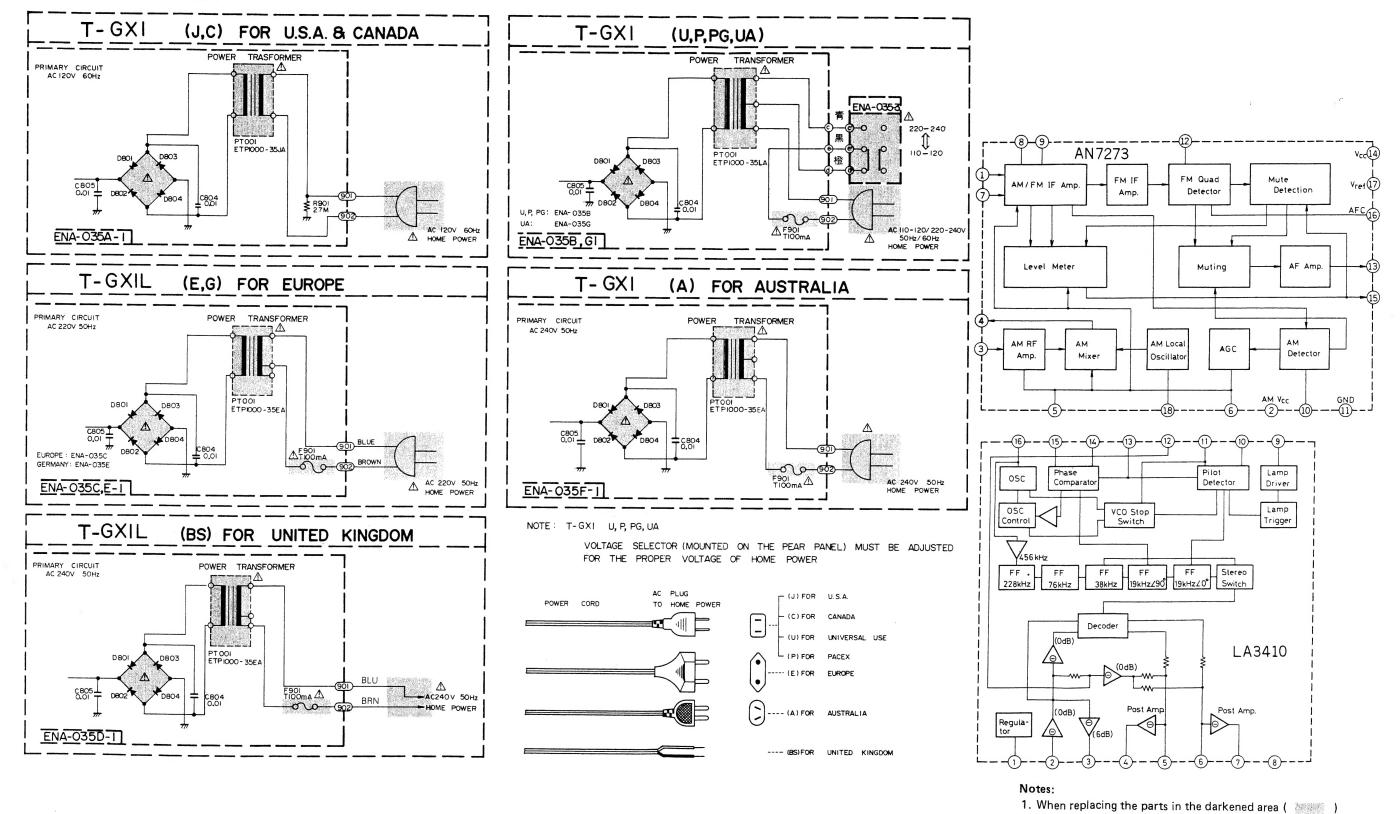
- 1. shows DC voltage to the chassis with no signal in-
- 2. —— indicates positive B power supply.
- 3. indicates signal path.

4. When replacing the parts in the darkened area (and those marked with \wedge , be sure to use the designated parts to ensure safety.

0)

This is the standard circuit diagram.
 The design and contents are subject to change without notice.

6-(3) T-GX1/T-GX1L Power Supply Section



and those marked with $\underline{\wedge}$, be sure to use the designated

The design and contents are subject to change without

parts to ensure safety.

notice.

2. This is the standard circuit diagram.

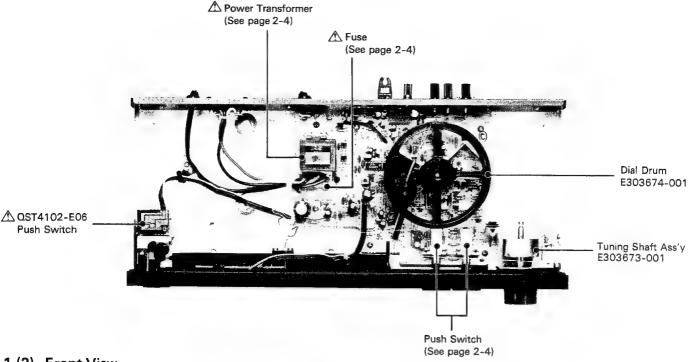
PARTS LIST

Contents

	Main Parts Locations 1-(1) Top View 1-(2) Front View 1-(3) Rear View	2 -	- 2 - 2 - 2
	Exploded View and Part Numbers		
	Printed Circuit Board Ass'y and Parts List		
4.	Packing Materials and Part Numbers	2 -	- 9
5.	Accessories List	2-	10

1. Main Parts Locations

1-(1) Top View

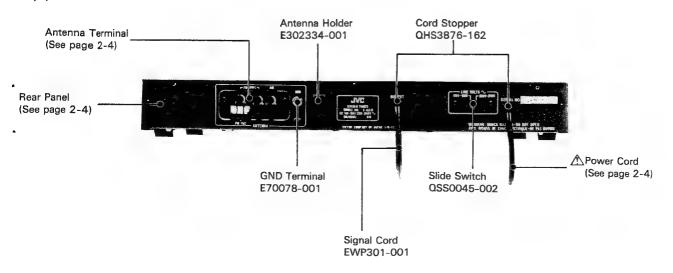


1-(2) Front View

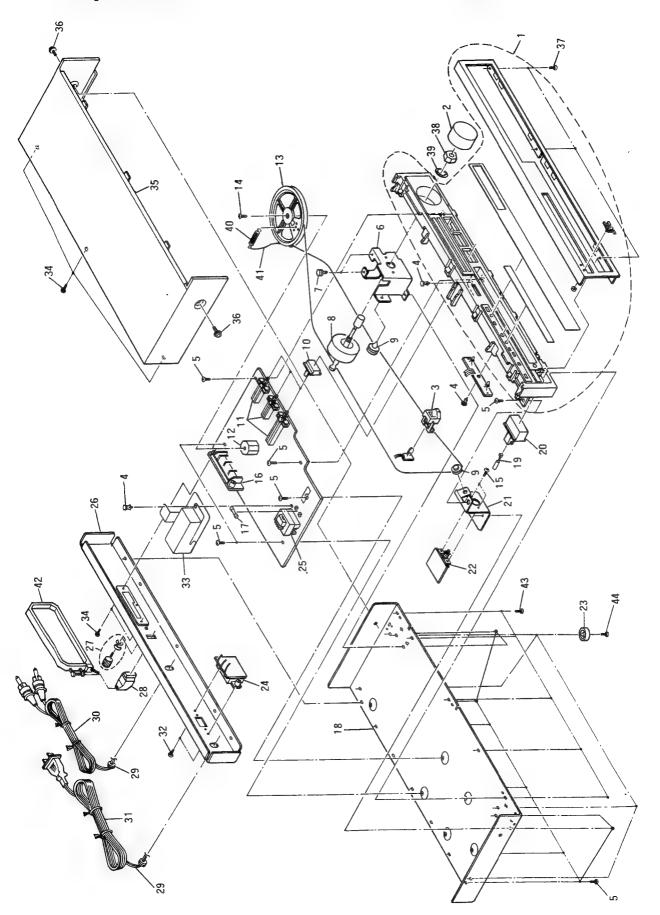
Metal Cover
E24937-001 (Silver)
E24937-002 (Black)

E72085-002
Push Knob
E72086-001

1-(3) Rear View



2. Exploded View and Part Numbers



Note: Those items shown on the disassembly diagram without indicated of reference Nos. are supplied as assembly parts.

Δ	No.	Part Number	Part Name	Q'ty	Description	Areas
	1 2	EFP-TGX1E EFP-TG1BE EFP-TGX1LE EFP-TGX1BLE E72086-001	Front Panel Ass'y Front Panel Ass'y Front Panel Ass'y Front Panel Ass'y Tuning Knob	1 1 1 1	Silver Black Silver Black	J,C,P,PG,A,UA,U J,C,P,PG,A,UA,U LG,LE,LES,LBS LG,LE,LES,LBS
	3 4 5 6 7	E72111-001 E48729-008 SBSB3008N E303723-001 E66082-001	Needle Ass'y Plastic Rivet Tapping Screw Roller Bracket Roller Ass'y	1 3 15 1 2		
	8 9 10 11	E303673-001 E66082-003 E72085-001 QST42A1-E01 QST43A1-E03	Tuning Shaft Ass'y Roller Ass'y Push Knob Push Switch Push Switch	1 2 2 1 1		J,C,P,PG,A,UA,U LG,LE,LES,LBS
	12 13 14 15 16	ENZ1005-004 E303674-001 SPSP2606Z E65119-001 E03572-016	Variable Cpacitor Dial Drum Screw Special Screw Antenna Terminal	1 1 1 2	Tuning	J,C,P,PG,A,UA,LE,LES,LBS
A	17 18 19	EMB91YV-201A QMF51A2-R10S QMF51E2-R10SBS E11085-001 E66226-001	Chassis Base Push Shaft	1 1 1 1	Power	LG A,UA,P,PG,E,LG,U LBS
Δ	20 21 22 23 24	E72085-002 E72087-001 QST4102-E06 E47227-023 QSS0045-002	Push Knob Bracket Push Switch Foot Slide Switch	1 1 4 1	Power Power Power Voltage Selector	P,PG,UA,U
**	25 26	ETP1000-35EA ETP1000-35EABS ETP1000-35JA ETP1000-35LA E24935-001	Power Transformer Power Transformer Power Transformer Power Transformer Rear Panel	1 1 1 1	Silver	A.LE,LES,LG LBS J.C. UA,P,PG,U J.C
		E24935-002 E24935-003 E24935-004 E24935-005 E24935-006	Rear Panel Rear Panel Rear Panel Rear Panel Rear Panel	1 1 1 1	Silver Silver Silver Silver Black	P,PG,UA,U A,LE,LBS LG LES J,C
	27	E24935-007 E24935-008 E24935-009 E24935-010 E70078-001	Rear Panel Rear Panel Rear Panel Rear Panel GND, Terminal	1 1 1 1 1	Black Black Black Black	P,PG,UA,U A,LE,LBS LG LES
Δ Α	28 29 30 31	E302334-001 QHS3876-162 EWP301-001 QMP1200-200 QMP2560-244	Antenna Holder Cord Stopper Signal Cord Power Cord Power Cord	1 2 1 1		J.C A
*		QMP3900-200 QMP7600-250 QMP9017-008BS SESB2608N SBSB2608M	Power Cord Power Cord Power Cord Tapping Screw Tapping Screw	1 1 1 2 2	Silver Black	LE,LG,LES P,PG,UA,U LBS
	35	E72304-001 SBSF3008M SBSF3008Z E24937-001 E24937-002 E61660-001	Protect Cover Screw Screw Metal Cover Metal Cover	1 5 5 1	Silver Black Silver Black	
	37 38	E61660-004 SBSF3008N SBSF3008M WAS9000	Special Screw Special Screw Tapping Screw Tapping Screw Washer	2 3 3 1	Silver Black Silver Black	
	40 41 42	E43323-002 E49698-001 E32757-020 See page 2-10 SBSF3008M SBSF3008Z	Nut Spring Dial lope Loop Antenna Tapping Screw Tapping Screw	1 1 1 1 5 5	Silver Black	
	44	SBSB3010N	Tapping Screw Tapping Screw	4	DIGUN	

⚠ Safety Parts

The Marks by Designated Area				
J U.S.A. C Canada P, PG U.S. Military Market LE Europe LES Spain	LG West Germany A Australia LBS U. K. UA Rep. of South Africa U Other Countries			

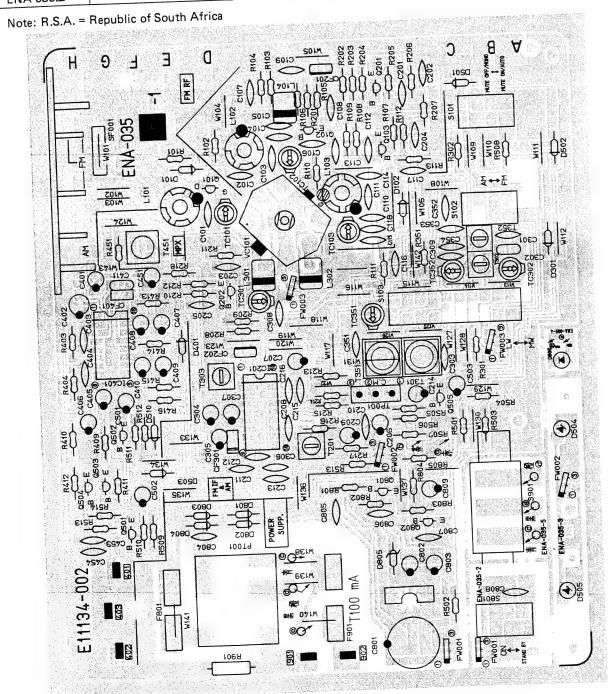
3. Printed Circuit Board Ass'y and Parts List

3-(1) ENA-035□ Tuner P.C. Board Ass'y

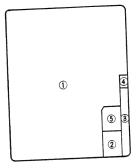
Note: ENA-035□ varies according to the areas employed. See note (1) when placing an order.

Note (1)

Designated Areas
U.S.A., Canada
U.S. Military Market, Other countries
Europe, Spain
U.K.
West Germany
Australia
R.S.A.



Each Individual P.C. Board Location



Tuner Power Supply P.C. Board Ass'y 1 ENH-035-1 Stand by Switch P.C. Board Ass'y ENH-035-2

Signal & Stereo Indicator P.C. Board Ass'y ③ ENH-035-3 Dial Pointer L.E.D. P.C. Board Ass'y

(4) ENH-035-4 Voltage Selector P.C. Board Ass'y **5** ENH-035-5

Transistors

ransist	Part Number	Des	cription	Areas
Item	Part Number		Maker	
	201/02/B1 B2\	F.E.T.	Matsushita	
Q101	2SK83(R1, R2) 2SC535(B,C)	Silicon	Hitachi	
Q102	2SC461(B,C)	Silicon	Hitachi	1
Q103	2SC461(B,C)	Silicon	Hitachi	
Q201	2SC535(B,C)	Silicon	Hitachi	
Q202 Q501	2SC458(C,D)	Silicon	Hitachi	
Q502	2SA872AV(D,E)	Silicon	Hitachi	
Q502	2SC458(C,D)	Silicon	Hitachi	
Q503	2SC458(C,D)	Silicon	Hitachi	
Ω505	2SC458(C,D)	Silicon	Hitachi	
Q801	2SD655(D,E)	Silicon		
Q802	2SD655(D,E)	Silicon		

1	Cs
	U3

Cs Item Part Number		Description		
Tare reasons		Maker	_	
AN7273	1.C.	Matsushita Sanyo		
	Part Number AN7273 LA3410	AN7273 I.C.	AN7273 I.C. Matsushita	

Diodes	Part Number	Descripti	on	Areas
Item	Part Number		Maker	
D101 D102 D301 D401	1SS108 1S2687 1S2076-31 1S2076-31	Silicon Silicon Silicon Silicon	Hitachi Dainichi Hitachi Hitachi Hitachi	E
D501 D502 D503 D504 D505 D510 D801	1S2076-31 1S2076-31 1S2076-31 SLR-55VC50F SLR-55VC50F 1S2076-31	Silicon Silicon L.E.D. L.E.D. Silicon Silicon	Hitachi Hitachi JRC JRC Hitachi Nippon Inte	
D802 D803 D803 D804 D806	11E2 11E2 11E2 11E2 RD13EB3 SLB-26DU50F	Silicon 4		er

Areas
Aleas
A
В
С
DBS
F_

Item	Part Number	Description	Areas
	EOR2306-013	RF Coil	G
L101	EQR2306-017	RF Coil	E
L101	EQR2306-003	RF Coil	
L102	EQR2406-001	RF Coil	A
L103	EQR2406-001	RF Coil	В
L103	EQR2406-001	RF Coil	C
L103	EOR2406-001	RF Coil	DBS
L103	EQR2406-001	RF Coil	E
L103	EQR2406-001	RF Coil	F
L103	EQR2406-005	RF Coil	G
L103	EQL3001-2R2KY	Inductor	
L104	EQL3001-2R2KY	Inductor	
L301	EQL3001-2R2KY	Inductor	
L302		LF.T.	
T201	EQT2140-010	RF Coil	
T301	EQR1111-009	RF Coil	
T302		I.F.T.	
T303	EQT1021-001	RF Coil	C
T351	EQR1111-006	RF Coil	DBS
T351	EQR1111-006	RF Coil	E
T351	EQR1111-006	LW OSC Coil	С
T352	EQR1307-004	LW OSC Coil	DBS
T352	EQR1307-004	LW OSC Coil	E
T352	EQR1307-004	Filter	E
T451	EQF0102-001	Filter	
SF101	EQF0201-004	Ceramic Filter	С
CF201	ECB2118-001	Ceramic Filter	DBS
CF201	ECB2118-001	Ceramic Filter	E
CF201	ECB2118-001	Ceramic Filter	Α.
CF201	ECB2123-001	Ceramic Filter	В
CF201		Ceramic Filter	F
CF201		Ceramic Filter	G
CF201		Ceramic Filter	C
CF202		Ceramic Filter	DB
CF202		Ceramic Filter	E
CF202		Ceramic Filter	A
CF202		Ceramic Filter	В
CF202		Ceramic Filter	F
CF20		Ceramic Filter	G
CF20		Ceramic Filter	
CF30	1 ECB1510-001		
CF40	1 ECX0000-456K	S Resonator	

Capacitors

apacito					
Item	Part Number	D	escripti	on	Areas
C101	QCS31HJ-220	22 pF	50 V	Ceramic	
2102	QCF31HP-103	0.01 μF	50 V	Ceramic	
C103	QCS31HJ-220	22 pF	50 V	Ceramic	1
C104	QCS31HJ-4R0	4R pF	50 V	Ceramic	
	QCS31HJ-2R0				
C106		2R pF	50 V	Ceramic	
C107	QCS31HJ-101	100 pF	50 V	Ceramic	
C108	QCF31HP-103	0.01 μF	50 V	Ceramic	
C109	QCF31HP-223	0.022 μF	50 V	Ceramic	
C110	QCT25PH-150	15 pF	50 V	Ceramic	G
C110	QCT25PH-180	18 pF	50 V	Ceramic	А
C110	QCT25PH-180	18 pF	50 V	Ceramic	В
C110	QCT25PH-180	18 pF	50 V	Ceramic	С
C110	QCT25PH-180	18 pF	50 V	Ceramic	DBS
2110	QCT25PH-180	18 pF	50 V	Ceramic	Е
C110	QCT25PH-180	18 pF	50 V	Ceramic	F
2111	QCT25CH-7R0	7R pF	50 V	Ceramic	
2112	QCT25CH-220	22 pF	50 V	_	
	QCT25CH-220			Ceramic	
C113		10 pF	50 V	Ceramic	
C114	QCF31HP-102	1000 pF	50 V	Ceramic	
2115	QCT25CH-5R0	5R pF	50 V	Ceramic	
C116	QCF31HP-103	0.01 μF	50 V	Ceramic	
C117	QCF31HP-103	0.01 μF	50 V	Ceramic	
2201	QCF31HP-103	0.01 μF	50 V	Ceramic	
202	QCF31HP-103	0.01 μF	50 V	Ceramic	
203	QCF31HP-103	0.01 μF	50 V	Ceramic	
C204	QCF31HP-103	0.01 μF	50 V	Ceramic	
205	QCF31HP-223	0.022 μF	50 V	Ceramic	
206	QET61EM-106	10 μF	25 V	Electrolytic	
2200	QET61AM-476	47 μF	10 V	Electrolytic	
	QCF31HP-223				
2208		0.022 μF	50 V	Ceramic	
2209	QET61AM-227	220 µF	10 V	Electrolytic	
2210	QCF31HP-103	0.01 μF	50 V	Ceramic	
2211	QCF31HP-223	0.022 μF	50 V	Ceramic	
2212	QCF31HP-223	0.022 μF	50 V	Ceramic	
2213	QCS31HJ-331	330 pF	50 V	Ceramic	
2214	QET61HM-105	1 μF	50 V	Electrolytic	
2215	QCF31HP-223	0.022 μF	50 V	Ceramic	
216	QCF31HP-223	0.022 µF	50 V	Ceramic	
2302	QFP31HJ-391	390 pF	50 V	Polypropyler	ne
2303	QCF31HP-223	0.022 μF	50 V	Ceramic	1
2304	QET61AM-107	100 μF	10 V	Electrolytic	
305	QET61HM-475	4.7 μF	50 V	Electrolytic	
2306	QCF31HP-103	0.01 μF	50 V	Ceramic	
2308					
	QCS31HJ-100	10 pF	50 V	Ceramic	_
2352	QCT25CH-220	22pF	50 V	Ceramic	C
2352	QCT25CH-220	22pF	50 V	Ceramic	DBS
2352	QCT25CH-220	22pF	50 V	Ceramic	E
353	QCT25CH-151	150 pF	50 V	Ceramic	С
353	QCT25CH-151	150 pF	50 V	Ceramic	DBS
353	QCT25CH-151	150 pF	50 V	Ceramic	E
2354	QCT25UJ-270	27 pF	50 V	Ceramic	C
354	QCT25UJ-270	27 pF	50 V	Ceramic	DBS
354	QCT25UJ-270	27 pF	50 V	Ceramic	E
2401	QET61EM-106	10 μF	25 V		-
2401	QET61CM-107			Electrolytic	
2402		100 μF	16 V	Electrolytic	_
1	QCS31HJ-221	220 pF	50 V	Ceramic	E
2403	QCS31HJ-331	330 pF	50 V	Ceramic	С
2403	QCS31HJ-331	330 pF	50 V	Ceramic	DBS
2403	QCS31HJ-331	330 pF	50 V	Ceramic	F
	QCS31HJ-331	330 pF	50 V	Ceramic	G
	0.00041111474	470 pF	50 V	Ceramic	А
C403 C403	QCS31HJ-471	4/000			
	QCS31HJ-471 QCS31HJ-471				
C403		470 pF	50 V	Ceramic	В
C403 C403	QCS31HJ-471				

Capacitors

Item	Part Number		Description		
C404	QCS31HJ-331	330 pF	50 V	Ceramic	F
C404	QCS31HJ-331	330 pF	50 V	Ceramic	G
C404	QCS31HJ-471	470 pF	50 V	Ceramic	A
C404	QCS31HJ-471	470 pF	50 V	Ceramic	В
C405	QET61EM-106	10 μF	25 V	Electrolytic	
C406	QET61EM-106	10 μF	25 V	Electrolytic	
C407	QET61HM-105	1 μF	50 V	Electrolytic	
C408	QET61HM-474	0.47 μF	50 V	Electrolytic	
C409	QET61EM-106	10 μF	25 V	Electrolytic	
C410	QET61HM-105	1 μF	50 V	Electrolytic	
C411	QFN31HJ-473	0.047 µF	50 V	Mylar	
C451	QET61EM-106	10 μF	25 V	Electrolytic	
C453	QCF31HP-102	1000 pF	50 V	Ceramic	
C454	QCF31HP-102	1000 pF	50 V	Ceramic	
C501	QET61EM-106	10 μF	25 V	Electrolytic	
C502	QET61HM-105	1 μF	50 V	Electrolytic	
C503	QET61HM-475	4.7 μF	50 V	Electrolytic	
C801	QET51VM-108	1000 μF	25 V	Electrolytic	
C802	QET61EM-106	10 μF	25 V	Electrolytic	
C803	QET61CM-476	47 μF	16 V	Electrolytic	
C804	QCF31HP-103	0.01 µF	50 V	Ceramic	
C805	QCF31HP-103	0.01 µF	50 V	Ceramic	
C806	QCF31HP-103	0.01 µF	50 V	Ceramic	
C807	QCF31HP-103	0.01 µF	50 V	Ceramic	
C808	QCF31HP-103	0.01 µF	50 V	Ceramic	
C809	QET61CM-107	100 μF	16 V	Electrolytic	
TC101	ENZ1003-003			Trimmer	
TC102	ENZ1003-003			Trimmer	
TC103	ENZ1003-003			Trimmer	
TC301	ENZ1003-006			Trimmer	
TC302	ENZ1003-006			Trimmer	
TC351	ENZ1003-006			Trimmer	С
TC351	ENZ1003-006			Trimmer	DBS
TC351	ENZ1003-006			Trimmer	E
TC352	ENZ1003-006			Trimmer	С
TC352	ENZ1003-006			Trimmer	DBS
TC352	ENZ1003-006			Trimmer	E
	ENZ1005-004			Variable	

Resistors

Item	Part Number	Description			Areas
R101	OPD14114700	17.0	<u>_</u>		
	QRD141J-470S	47 Ω	1/4 W	Carbon	E
R101	QRD141J-330S	33 V	1/4 W	Carbon	Α
R101	QRD141J-330S	33 Ω	1/4 W	Carbon	В
R101	QRD141J-330S	33 N	1/4 W	Carbon	С
R101	QRD141J-330S	33 Ω	1/4 W	Carbon	DBS
R101	QRD141J-330S	33 Ω	1/4 W	Carbon	F
R101	QRD141J-330S	33 Ω	1/4 W	Carbon	G
R102	QRD141J-221S	220 Ω	1/4 W	Carbon	
R103	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	
R104	QRD141J-223S	22 kΩ	1/4 W	Carbon	
R105	QRD141J-102S	1 kΩ	1/4 W	Carbon	
R106	QRD141J-561S	560 Ω	1/4 W	Carbon	
R107	QRD141J-561S	560 Ω	1/4 W	Carbon	
R108	QRD141J-103S	10 kΩ	1/4 W	Carbon	
R109	QRD141J-682S	$6.8 \text{ k}\Omega$	1/4 W	Carbon	
R110	QRD141J-222S	2.2 kΩ	1/4 W	Carbon	
R111	QRD141J-104S	100 kΩ	1/4 W	Carbon	
R112	QRD141J-104S	100 kΩ	1/4 W	Carbon	
R113	QRD141J-333S	33kΩ	1/4 W	Carbon	Α
R113	QRD141J-333S	33kΩ	1/4 W	Carbon	В
R113	QRD141J-333S	33kΩ	1/4 W	Carbon	С

2-7 (No. 2797)

Resistors

Item	Part Number	I	Descrip	otion	Areas
R113	QRD141J-333S	33kΩ	1/4 W	Carbon	DBS
R113	QRD141J-333S	33kΩ	1/4 W	Carbon	
R113	QRD141J-333S	33kΩ	1/4 W	Carbon	E
R113	QRD141J-272S	33 kΩ	1/4 W	Carbon	G
R202	QRD141J-561S	560 Ω	1/4 W	Carbon	
R204	QRD141J-272S	2.7 kΩ	1/4 W	Carbon	
R205	QRD141J-681S	680 Ω	1/4 W	Carbon	
R206	QRD141J-561S	560 Ω	1/4 W	Carbon	
R208	QRD141J-103S	10 kΩ	1/4 W	Carbon	
R210	QRD141J-393S	39 kΩ	1/4 W	Carbon	
R211	QRD141J-681S	680 Ω	1/4 W	Carbon	
R212	QRD141J-561S	560 Ω	1/4 W	Carbon	
R213	QRD141J-104S	100 kΩ	1/4 W	Carbon	
R214	QRD141J-821S	820 Ω	1/4 W	Carbon	
R215	QRD141J-153S	15 kΩ	1/4 W	Carbon	
R216	QRD141J-222S	2.2 kΩ	1/4 W	Carbon	
R217	QRD141J-471S	470 Ω	1/4 W	Carbon	
R218	QRD141J-222S	2.2 kΩ	1/4 W	Carbon	
R301	QRD141J-681S	680 Ω	1/4 W	Carbon	l [
R302	QRD141J-102S	1kΩ	1/4 W	Carbon	[
R351	QRD141J-102S	1kΩ	1/4 W	Carbon	С
R351	QRD141J-102S	1 kΩ	1/4 W	Carbon	DBS
R351	QRD141J-102S	1kΩ	1/4 W	Carbon	E
R403	QRD141J-154S	150 kΩ	1/4 W	Carbon	Ā
R403	QRD141J-154S	150 kΩ	1/4 W	Carbon	В
R403	QRD141J-154S	150 kΩ	1/4 W	Carbon	c
R403	QRD141J-154S	150 kΩ	1/4 W	Carbon	DBS
R403	QRD141J-154S	150 kΩ	1/4 W	Carbon	F
R403	QRD141J-154S	150 kΩ	1/4 W	Carbon	G
R403	QRD141J-224S	220 kΩ	1/4 W	Carbon	E
R404	QRD141J-154S	150 kΩ	1/4 W	Carbon	A
R404	QRD141J-154S	150 kΩ	1/4 W	Carbon	В
R404	QRD141J-154S	150 kΩ	1/4 W	Carbon	C
R404	QRD141J-154S	150 kΩ	1/4 W	Carbon	DBS
R404	QRD141J-154S	150 kΩ	1/4 W	Carbon	F
R404	QRD141J-154S	150 kΩ	1/4 W	Carbon	G
R404	QRD141J-224S	220 kΩ	1/4 W	Carbon	E
B409	QRD141J-332S	3.3 kΩ	1/4 W	Carbon	-
R410	QRD141J-332S	3.3 kΩ	1/4 W	Carbon	
R411	QRD141J-333S	33 kΩ	1/4 W	Carbon	c
B411	QRD141J-333S	33 kΩ	1/4 W	Carbon	DBS
R411	QRD141J-333S	33 kΩ	1/4 W	Carbon	E
B411	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	A
B411	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	
R411	QRD141J-472S	4.7 kΩ	1/4 W		B
R411	QRD141J-472S	4.7 kΩ	1/4 W	Carbon Carbon	G
R412	QRD141J-333S	33 kΩ	1/4 W	Carbon	C
R412	QRD141J-333S	33 kΩ	1/4 W	Carbon	DBS
R412	QRD141J-333S	33 kΩ	1/4 W	Carbon	E
R412	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	A
R412	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	B
R412	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	F
R412	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	G
R413	QRD141J-102S	1 kΩ	1/4 W	Carbon	٥
R414	QRD141J-563S	56 kΩ	1/4 W	Carbon	
R415	QRD141J-103S	10 kΩ	1/4 W	Carbon	
R416	QRD141J-102S	1 kΩ	1/4 W		
R417	QRD 141J-151S.	1	i 1	Carbon	
R417		150Ω	1/4W	Carbon	_
R501	QRD141J-153S	15 kΩ	1/4 W	Carbon	E
R502	QRD141J-223S	22 kΩ	1/4 W	Carbon	
R503	QRD141J-223S	22 kΩ	1/4 W	Carbon	
R504	QRD141J-104S	100 kΩ	1/4 W	Carbon	
R505	QRD141J-104S	100 kΩ	1/4 W	Carbon	
R506	QRD141J-103S	10 kΩ	1/4 W	Carbon	
LU200	QRD141J-273S	27 kΩ	1/4 W	Carbon	

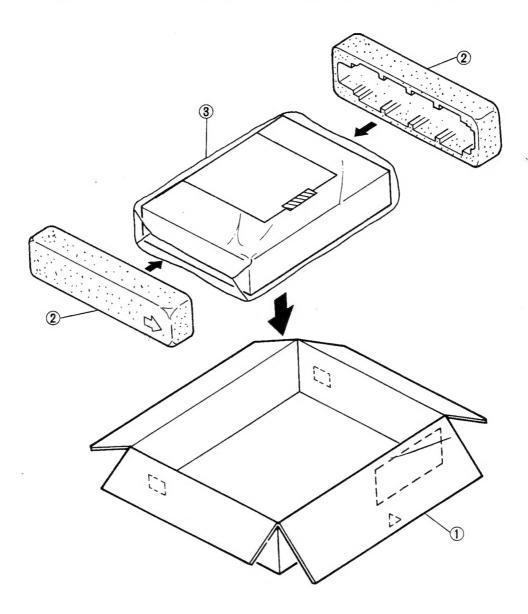
Resistors

ltem	Part Number		Descrip	tion	Areas
R507	QRD141J-102S	1kΩ	1/4 W	Carbon	
R508	QRD141J-123S	12 kΩ	1/4 W	Carbon	
R509	QRD141J-123S	12 kΩ	1/4 W	Carbon	
R510	QRD141J-102S	1 kΩ	1/4 W	Carbon	
R511	QRD141J-473S	47 kΩ	1/4 W	Carbon	
R512	QRD141J-223S	22 kΩ	1/4 W	Carbon	
R513	QRD141J-223S	22 kΩ	1/4 W	Carbon	
R514	QRD141J-223S	22 kΩ	1/4 W	Carbon	
R515	QRD141J-222S	2.2 kΩ	1/4 W	Carbon	
R801	QRD141J-472S	4.7 kΩ	1/4 W	Carbon	
R802	QRD141J-102S	1 kΩ	1/4 W	Carbon	
R803	QRD141J-102S	1kΩ	1/4 W	Carbon	
R804	QRD141J-103S	10 kΩ	1/4 W	Carbon	
R805	QRD141J-561S	560 Ω	1/4 W	Carbon	
R901	QRC128K-275EM	2.7 MΩ	1/2 W	Composition	Α

Others

Item	Part Number	Description	Areas
	E11134-002	Circuit Board	А
	E11134-002	Circuit Board	В
	E11134-002	Circuit Board	С
	E11134-002	Circuit Board	E
	E11134-002	Circuit Board	F
	E11134-002	Circuit Board	G
	E11134-002BS	Circuit Board	DBS
	E71008-001	Shield Case	
	EMB01YV-201A	Antenna Terminal	F
	E03572-016	Antenna Terminal	A
	E03572-016	Antenna Terminal	В
	E03572-016	Antenna Terminal	С
	E03572-016	Antenna Terminal	DBS
	E03572-016	Antenna Terminal	E
	€03572-016	Antenna Terminal	G
	E67764-003	Terminal	
	E65508-002	Tab	
	E65508-002	Tab	
	EMG7331-001	Fuse Clip	В
	EMG7331-001	Fuse Clip	С
	EMG7331-001	Fuse Clip	DBS
	EMG7331-001	Fuse Clip	E
	EMG7331-001	Fuse Clip	F
	EMG7331-001	Fuse Clip	G
	E67642-002	Shield Plate	
	E70859-001	Earth Plate	
S101	QST42A1-E01	Push Switch	А
S101	QST42A1-E01	Push Switch	В
S101	QST42A1-E01	Push Switch	F
S101	QST42A1-E01	Push Switch	G
S101	QST43A1-E03	Push Switch	С
S101	QST43A1-E03	Push Switch	DBS
S101	QST43A1-E03	Push Switch	E
S801	QST4101-E5	Push Switch 🛆	
PT001	ETP1000-35EA	Power Transformer 🛆	С
PT001	ETP1000-35EA	Power Transformer 🛆	Е
PT001	ETP1000-35EA	Power Transformer 🛆	F
PT001	ETP1000-35EABS	Power Transformer 🛆	DBS
PT001	ETP1000-35JA	Power Transformer 🛆	Α
PT001	ETP1000-35LA	Power Transformer 🛆	В
PT001	ETP1000-35LA	Power Transformer 🛆	G
S901	QSS0045-002	Slide Switch	В
S901	QSS0045-002	Slide Switch	G

4. Packing Materials and Part Numbers



No.	Part Number	Part Name	Description	Areas	
2	PK-TGX1E PK-TGX1BE PK-TGX1LE PK-TGX1LBE NZ-TGX1E	Packing Case Packing Case Packing Case Packing Case Fillers	(E24938-001) (E24938-002)	J, C, P, PG, A UA, U J, C, P, PG, A, UA, U LE, LES, LBS, LG LE, LES, LBS, LG	
3	E68142-011 E68142-011B	Protect Sheet Protect Sheet		J, C, P, PG, A, LE, LEB, LG, UA, U LBS	

The Marks for	The Marks for Designated Area				
J U.S.A.	LG West Germany				
C Canada	A Australia				
P, PG U.S. Military Market	LBS U.K.				
LE Europe	UA Rep. of South Africa				
LES Spain	U Other Countries				

5. Accessories List

Part Number	Part Name	Description	Areas
E30580-1121A E30580-1121ABS BT20048B BT20025H BT20029C BT20060 BT20064 BT20066	Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card Warranty Card Warranty Card Warranty Card ECC Agency		J, C, P, PG, A, LE, LES, LG, UA, U LBS J, P, PG C A LBS LG LBS, LG
BT20071A BT20054-005A	SVC Center FTZ Information Card		C LG
BT20046B BT20044D E03614-004 E67007-001 E04056	Service Information Card Instruction Sheet Built-in Antenna Wire Antenna Ass'y Siemens Plug		J, P, PG J J, C, P, PG, A, LE, LES, LBS, UA, U LG PG, UA, U
E35497-022 E35497-021 E41202-2 E41202-2B E66416-003	Caution Sheet (220 V) Caution Sheet (110 V) Envelope (for Instruction Book) Envelope (for Instruction Book) Envelope (for Warranty Card)		U, PG, UA P J, C, P, PG, A, LE, LES, LG, UA, U LBS J
EQB4001-009	Bar Antenna Coil		

The Marks by Designated Area		
J	U.S.A.	LG West Germany
C	Canada	A Australia
P, PG .	U.S. Military Market	LBS U.K.
LE	Europe	UA Rep. of South Africa
LES	Spain	U Other Countries